



HiTouch™ Sabouraud Dextrose Agar w/ LTHTh Flexi Plate FL039

For determining the efficiency of sanitization of containers, equipment surfaces, water miscible cosmetics, etc.

Composition**

Ingredients	Gms / Litre
Dextrose	40.000
Mycological peptone	10.000
Lecithin	0.700
Polysorbate 80 (Tween 80)	5.000
Histidine	0.500
Sodium thiosulphate	0.500
Agar	15.000

**Formula adjusted, standardized to suit performance parameters

Directions

Open the pouch in the protected area . Remove the wrapping and open the lid and carefully lift up the enclosed prepared medium plate so as to avoid touching the agar surface by hand.Touch the surface of agar plate onto the surface to be tested. Gently press the plate manually for upto 10 second. Apply constant and uniform pressure to the whole surface (ensuring that an even pressure of 25 gm/cm² is distributed over the whole plate for 10 seconds). Replace exposed medium plate back in the base plate. Close the lid. Press the sides of the lid to make sure that it is fixed in the grooves. Disinfect the surface where the sample was taken in order to remove any possible traces of agar. Incubate the plates at specified temperature. After incubation as recommended count the number of colonies which have appeared on the surface of medium. Alternative Methods of Inoculation : To use as Culture Plate (ii), Sample Dilution Plate (iii) or Swabbing Plate (iv) To use as Gravitation Settling Plate (v)

Principle And Interpretation

Hitouch Flexi Plates are specially developed for the microbial testing in food , pharmaceutical, cosmetic,dairy, hospitals, water works, environmental testing etc. These plates are handy and ready to use sterile media supplied in flexible disposable plates, 55 mm in diameter. It is grid scored on the base and is irradiated to ensure perfect sterility. Medium is filled aseptically and each plate is packed in pre-sterilized plastic bag. Hitouch Flexi Plateis then packed in plastic pouch wrapping. The unique flexible plate configuration ensures close contact even with uneven surfaces. where not only counts are obtained but it is also possible to select and differentiate between groups of microorganisms like coliforms (both *E. coli* and non *E. coli*). These plates are specially developed for microbial testing, The Flexi plate medium formula is suitable for determining the efficiency of sanitization of containers, equipment surfaces, water miscible cosmetics, etc. and the grids enable direct reading on the plates of the number of colonies per cm².

Sabouraud Dextrose Agar with Soya Lecithin and Polysorbate 80 is the modification of formulation described by Sabouraud for determining efficiency of sterilization of container etc. with respect to yeast moulds and aciduric bacteria.

Mycological peptone provides nitrogenous compounds. Dextrose provides an energy source. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens (2).

Some pathogenic fungi may produce infective spores which are easily dispersed in air, so examination should be carried out in safety cabinet.Lecithin and polysorbate 80 are neutralizers reported to inactivate residual disinfectants from where the sample is collected (3). Lecithin neutralizes quartenary ammonium compounds and polysorbate 80 neutralizes phenolic disinfectants, hexachlorophene formalin, and with lecithin neutralizes ethanol (4). Sodium thiosulphate neutralizes mercurial, halogens, aldehydes etc. Histidine acts as a reducing agent. Collection of samples from areas before and after the treatment with disinfectant evaluates cleaning procedures in environmental sanitation. The presence and number of fungi is determined by the appearance of colonies on the agar surface.

Quality Control

Appearance

Sterile plastic plate containing light amber coloured firm gel

Quantity of Medium

9ml of gel in plastic plate

Reaction

5.40- 5.80

Sterility test

Passes release criteria

Cultural response

Cultural characteristics was observed after incubation at 20-25°C for 40-48 hours.

Organism	Growth	Colour of Colony
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Cultural response

<i>Trichophyton rubrum</i> ATCC 28191	Good-luxuriant(Incubated for 5-7 days)	-
<i>Aspergillus brasiliensis</i> ATCC 16404	Good-luxuriant (incubated for 72 hrs)	-
<i>Candida albicans</i> ATCC 10231	Luxuriant	White
<i>Saccharomyces cerevisiae</i> ATCC 9763	Luxuriant	White

Storage and Shelf Life

Store between 2-8°C. Use before expiry date on the label.

Reference

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- "Guide du blonnettoyage". Journal Officiel de la Republique Francaise. Recommandation NOE 1-90 (1991).

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